Contents to volume 287

Review Letter

How do viral reverse transcriptases recognize their RNA genome? (FEBS 09979) *J.-M. Mesnard, G. Lebeurier* 1

Research Letters

Identities of four low-molecular-mass subunits of the photosystem I complex from *Anabaena variabilis* ATCC 29413: Evidence for the presence of the *psa*I gene product in a cyanobacterial complex (FEBS 09954) *M. Ikeuchi, K.J. Nyhus, Y. Inoue, H.B. Pakrasi* 5

Iron entry route in horse spleen apoferritin: Involvement of the three-fold channels as probed by selective reaction of cysteine-126 with the spin label 4-maleimido-tempo (FEBS 09955) *A. Desideri, S. Stefanini, F. Polizio, R. Petruzzelli, E. Chiancone* 10

Mast cell degranulating (MCD) peptide and its optical isomer activate GTP binding protein in rat mast cells (FEBS 09956) *I. Fujimoto, K. Ikenaka, T. Kondo, S. Aimoto, M. Kuno, K. Mikoshiba* 15

Low-density lipoproteins interact with liposome-binding sites on the cell surface (FEBS 09958) *S.I. Galkina, V.V. Ivanov, S.N. Preobrazhensky, L.B. Margolis, L.D. Bergelson* 19

Cloning and expression of human endothelin-1 receptor cDNA (FEBS 09961) *K. Hosoda, K. Nakao, Hiroshi-Arai, S. Suga, Y. Ogawa, M. Mukoyama, G. Shirakami, Y. Saito, S. Nakanishi, H. Imura* 23

N-Deglycosylation and immunological identification indicates the existence of β-subunit isoforms of the rat $GABA_A$ receptor (FEBS 09964) *A. Buchstaller, D. Adamiker, K. Fuchs, W. Sieghart* 27

Penicillin acylase-catalyzed protection and deprotection of amino groups as a promising approach in enzymatic peptide synthesis (FEBS 09962) *R. Didžiapetris, B. Drabnig, V. Schellenberger, H.-D. Jakubke, V. Švedas* 31

Complete down-regulation of low-density lipoprotein receptor activity in human liver parenchymal cells by β-very-low-density lipoprotein (FEBS 09966) *J.A.A.M. Kamps, J. Kuiper, J.K. Kruijt, T.J.C. van Berkel* 34

Hemorphins derived from hemoglobin have an inhibitory action on angiotensin converting enzyme activity (FEBS 09967) *I. Lantz, E.-L. Glämsta, L. Talbäck, F. Nyberg* 39

Cerebellar granule cells in culture exhibit a ganglioside-sialidase presumably linked to the plasma membrane (FEBS 09968) *L. Riboni, A. Prinetti, R. Bassi, G. Tettamanti* 42

Pericentral expression pattern of glucokinase mRNA in the rat liver lobulus (FEBS 09970) *A.F.M. Moorman, P.A.J. de Boer, R. Charles, W.H. Lamers* 47

Molecular cloning of the Ecotin gene in *Escherichia coli (FEBS 09974) H.R. Lee, J.H. Seol, O.M. Kim, C.S. Lee, S.W. Suh, Y.-M. Hong, K. Tanaka, A. Ichihara, D.B. Ha, C.H. Chung* 53

Degradation of transcription factors, c-Jun and c-Fos, by calpain (FEBS 09969) *S. Hirai, H. Kawasaki, M. Yaniv, K. Suzuki* 57

Comparative analysis of mitochondrial and amyloplast adenylate translocators (FEBS 09978) *J. Pozueta-Romero, A.M. Viale, T. Akazawa* 62

Extreme variations in the ratios of non-synonymous to synonymous nucleotide substitution rates in signal peptide evolution (FEBS 09977) *F. Garcia-Maroto, A. Castagnaro, P.S. de la Hoz, C. Maraña, P. Carbonero, F. García-Olmedo* 67

Analysis of the regulatory domain of yeast plasma membrane H-ATPase by directed mutagenesis and intragenic suppression (FEBS 09980) *F. Portillo, P. Eraso, R. Serrano* 71

Two different types of channels are targets for potassium channel openers in *Xenopus* oocytes (FEBS 09986) *E. Honoré, M. Lazdunski* 75

Stathmin phosphorylation patterns discriminate between distinct transduction pathways of human T lymphocyte activation through CD2 triggering (FEBS 09982) *S. le Gouvello, H. Chneiweiss, N. Tarantino, P. Debre, A. Sobel* 80

Dinucleoside tetraphosphatase from human blood cells: Purification and characterization as a high specific activity enzyme recognized by an anti-rat tetraphosphatase antibody (FEBS 09983) *R.M. Pinto, M.J. Costas, A. Fernández, J. Canales, J.A. García-Agundez, J.C. Cameselle* 85

Changes in mitochondrial and microsomal rat liver coenzyme Q_9 and Q_{10} content induced by dietary fat and endogenous lipid peroxidation (FEBS 09984) *J.R. Huertas, M. Battino, G. Lenaz, F.J. Mataix* 89

[^{3}H]Morphine binding is enhanced by IL-1-stimulated thymocyte proliferation (FEBS 09965) *S. Roy, B.-L. Ge, S. Ramakrishnan, N.M. Lee, H.H. Loh* 93

Magnetic resonance studies of murine macrophages: Proliferation is not a prerequisite for acquisition of an 'activated' high resolution spectrum (FEBS 09987) *N.J.C. King, M.H. Ward, K.T. Holmes* 97

In vivo immediate early gene expression induced in intestinal and colonic mucosa by feeding (FEBS 09988) *P.R. Holt, R.N.D. Jr* 102

Porcine leukocyte 5- and 12-lipoxygenases are iron enzymes (FEBS 09989) *P.M.H. Kroneck, C. Cucurou, V. Ullrich, N. Ueda, H. Suzuki, T. Yoshimoto, S. Matsuda, S. Yamamoto* 105

The potency of amide protons for assignments of NMR spectra of carbohydrate chains of glycoproteins, recorded in ^1H_2O solutions (FEBS 09990) *K. Hård, B.A. Spronk, C.H. Hokke, J.P. Kamerling, J.F.G. Vliegenthart* 108

Phytohormonal regulation of S-adenosylmethionine synthetase and S-adenosylmethionine levels in dwarf pea epicotyls (FEBS 10016) *M. Mathur, R.C. Sachar* 113

The delivery of foreign genes into fertilized fish eggs using high-velocity microprojectiles (FEBS 09999) *A.V. Zelenin, A.A. Alimov, V.A. Barmintzev, A.O. Beniumov, I.A. Zelenina, A.M. Krasnov, V.A. Kolesnikov* 118

Localization of surface peptide from ribosomal protein L7 on 80 S ribosome by biotinylation (FEBS 09995) *A. Lin* 121

Light-induced D1 protein degradation is catalyzed by a serine-type protease (FEBS 09996) *I. Virgin, A.H. Salter, D.F. Ghanotakis, B. Andersson* 125

High-level expression of enzymatically active bovine leukemia virus proteinase in *E. coli (FEBS 09997) Martin Andreánsky, O. Hrušková-Heidingsfeldová, J. Sedláček, J. Konvalinka, I. Bláha, Petr Ječmen, M. Hořejší, P. Štrop, M. Fábry* 129

Geometry of binding of the *N*α-tosylated piperidides of *m*-amidino-, *p*-amidino- and *p*-guanidino phenylalanine to thrombin and trypsin: X-ray crystal structures of their trypsin complexes and modeling of their thrombin complexes (FEBS 09998) *D. Turk, J. Stürzebecher, W. Bode* 133

The role of lipid peroxidation products in cumene hydroperoxide-induced Ca^2 efflux from mitochondria (FEBS 10000) *V.G. Gogvadze, A.A. Zhukova* 139

Dynamics of the excited state of the primary electron donor in reaction centers of *Rhodopseudomonas viridis* as revealed by hole burning at 1.7K: Different conformational states (FEBS 10002) *A.Ya. Shkuropatov, A.O. Ganago, V.A. Shuvalov* 142

Evolutionary origin of numerous kringles in human and simian apolipoprotein(a) (FEBS 10006) *K. Ikeo, K. Takahashi, T. Gojobori* 146

Published by Elsevier Science Publishers B.V.

Fatty acid acylated Fab-fragments of antibodies to neurospecific proteins as carriers for neuroleptic targeted delivery in brain (FEBS 10001) *V.P. Chekhonin, A.V. Kabanov, Yu.A. Zhirkov, G.V. Morozov* 149

Mutant analysis of interaction of the *Bacillus subtilis* transcription regulator AbrB with the antibiotic biosynthesis gene *tycA* (FEBS 10005) *R. Fürbaß, M.A. Marahiel* 153

O-H stretching vibration in Fourier transform difference infrared spectra of bacteriorhodopsin (FEBS 10007) *C.-W. Chang, N. Sekiya, Sekiya,, K. Yoshihara* 157

Inhibition of aspartic proteinases by propart peptides of human procathepsin D and chicken pepsinogen (FEBS 10011) *M. Fusek, M. Mareš, J. Vágner, Z. Voburka, M. Baudyš* 160

Crystallographic investigations of the tryptophan-derived cofactor in the quinoprotein methylamine dehydrogenase (FEBS 10008) *L. Chen, F.S. Mathews, V.L. Davidson, E.G. Huizinga, F.M.D. Vellieux, Johannis A. Duine, W.G.J. Hol* 163

Purification and characterization of E37, a major chloroplast envelope protein (FEBS 10009) *M.A. Block, J. Joyard, R. Douce* 167

Widespread distribution of Gqα/G11α detected immunologically by an antipeptide antiserum directed against the predicted C-terminal decapeptide (FEBS 10010) *F.M. Mitchell, I. Mullaney, P.P. Godfrey, S.J. Arkinstall, M.J.O. Wakelam, Graeme Milligan* 171

Induction of differentiation of human leukemia cells by inhibitors of myosin light chain kinase (FEBS 10012) *M. Makishima, Y. Honma, M. Hozumi, K. Sampi, M. Hattori, K. Motoyoshi* 175

Identification of hematoxylin-stainable protein in epidermal keratohyalin granules as phosphorylated cystatin α by protein kinase C (FEBS 10018) *M. Takahashi, T. Tezuka, T. Towatari, N. Katunuma* 178

Oxidized low density lipoprotein inhibits bradykinin-induced phosphoinositide hydrolysis in cultured bovine aortic endothelial cells (FEBS 10013) *K. Hirata, H. Akita, M. Yokoyama* 181

Uniform labeling of a recombinant antibody Fv-fragment with ^{15}N and ^{13}C for heteronuclear NMR spectroscopy (FEBS 10015) *L. Riechmann, J. Cavanagh, S. McManus* 185

The selective role of cathepsins B and D in the lysosomal degradation of endogenous and exogenous proteins (FEBS 10017) *E. Kominami, T. Ueno, D. Muno, N. Katunuma* 189

Studies on the synthesis and secretion of transthyretin by the human hepatoma cell line Hep G2 (FEBS 10019) *W.S. Blaner, M.J. Bonifácio, H.D. Feldman, R. Piantedosi, Piantedosi,, M.J. Mascarenhas Saraiva* 193

An upstream regulatory element of the NCAM promoter contains a binding site for homeodomains (FEBS 10020) *M.-R. Hirsch, I. Valarché, H. Deagostini-Bazin, C. Pernelle, A. Joliot, C. Goridis* 197

Daily amylin replacement reverses hepatic glycogen depletion in insulin-treated streptozotocin diabetic rats (FEBS 10022) *A.A. Young, L.B. Crocker, D. Wolfe-Lopez, G.J.S. Cooper* 203

Two lipoyl domains in the dihydrolipoamide acetyltransferase chain of the pyruvate dehydrogenase multienzyme complex of *Streptococcus faecalis (FEBS 10021) A.G. Allen, R.N. Perham* 206

Site-directed mutagenesis of La protease: A catalytically active serine residue (FEBS 10023) *A.Yu. Amerik, V.K. Antonov, A.E. Gorbalenya, S.A. Kotova, T.V. Rotanova, E.V. Shimbarevich* 211

Analysis of the binding of *p*-chlorophenyl-methoxybenzyl-ketoxime (CPMB-Oxime) to mitochondrial cytochrome *c* reductase (FEBS 10024) *U. Brandt, G. von Jagow* 215

Solubilization of rat kidney lysosomes in reversed micelles of aerosol OT in octane (FEBS 10025) *A.V. Pshezhetsky, O.A. Buneeva, G.Ya. Wiederschain* 219

Reversible expression of sm α-actin protein and sm α-actin mRNA in cloned cerebral endothelial cells (FEBS 09985) *A. Amberger, H. Bauer, U. Tontsch, G. Gabbiani, O. Kocher, H.C. Bauer* 223

Book Reviews, Book List no. 102 226

Author index to volume 287 235

Contents to volume 287 239